FOS CDR RID Report

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Review FOS
Originator Ref
Priority 2

Section **Page** **Figure Table**

Category Name Ops Scenario **Actionee** Project & ECS
Sub Category
Subject General

Description of Problem or Suggestion:

Some phases weren't adequately addresed in terms of how FOS supports them (.e.g., launch and early orbit, external testing, anomalies). I had difficulty understanding/determining if design met all requirements.

Originator's Recommendation

Focus on non-routine phases in subsequent reviews. Identify test tools to be used.

GSFC Response by: Alan Johns **GSFC Response Date** 3/4/96

The issue raised by the FOS CDR Review Board with regard to the amount and length of testing necessary for FOS is currently being worked by ESDIS Project management, and will be addressed at the ESDIS Status Review, March 12-13, 1996.

HAIS Response by: Hal Schroeder **HAIS Schedule**
HAIS R. E. Scott Carter **HAIS Response Date** 11/10/95

Agree with the originator's recommendation that FOS support of non-routine phases should be the focus of subsequent reviews. Specifically, FOS support of non-routine phases will be addressed during the following reviews: Mission Operations Review (MOR) Jun-96, Flight Operations Review (FOR) Jun-97, and Operations Readiness Review (ORR) Mar-98.

Prior to launch of the AM-1 spacecraft, the FOS will be required to support a number of external tests. A summary of the key tests are defined in the FOS Composite Test Schedule, (Table 3-10, FOS System/Segment Integration and Test Plan, DID 319-CD-001-003, 10/95). These tests will provide mission operations with the necessary degree of confidence in the FOS capability to support requirements associated with launch, early orbit and S/C anomaly scenarios for AM-1.

For testing the external interface functionality of FOS, a number of data sets are required and have been identified in the FOS Test Dataset Definitions matrix, (Appendix B of the FOS System/Segment Integration and Test Plan, DID 319-CD-001-003, 10/95). The majority of these data sets can be satisfied by obtaining a data file or data tape from the spacecraft or instrument contractors, however, some data sets will be provided via simulation/emulation capabilities. The FOS will take advantage of the following data tools to achieve simulation capabilities: EOSDIS Test Simulator (ETS), NCC Test System (NTS), Spacecraft Simulator (SSIM), Command Receipt Tool and a Telemetry Generator Tool. A description of these tools is located in section 3.5 of the FOS System/Segment Integration and Test Plan, DID 319-CD-001-003, 10/95.

Status **Closed** **Date Closed** **3/4/96** **Sponsor** **Johns**

****** **Attachment if any** ******